

FORM PTO-1390 (Modified)
(REV 11-2000)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371**

15584.1

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

10/019624

INTERNATIONAL APPLICATION NO.
PCT/GB00/02576

INTERNATIONAL FILING DATE
July 6, 2000

PRIORITY DATE CLAIMED
July 6, 1999

TITLE OF INVENTION

HOSE CLAMPING DEVICE

APPLICANT(S) FOR DO/EO/US

Terry Bruce

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 20 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
20. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
22. ☒ Certificate of Mailing by Express Mail
23. ☒ Other items or information:

Postcard

Form PTO-2038 submitting payment

U.S. APPLICATION NO. 107019624	INTERNATIONAL APPLICATION NO. PCT/GB00/02576	ATTORNEY'S DOCKET NUMBER 15584.1
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24. The following fees are submitted:

BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :

- ☐ Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO **\$1040.00**
- ☒ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO **\$890.00**
- ☐ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO **\$740.00**
- ☐ International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) **\$710.00**
- ☐ International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) **\$100.00**

ENTER APPROPRIATE BASIC FEE AMOUNT =**CALCULATIONS PTO USE ONLY****\$890.00**

Surcharge of **\$130.00** for furnishing the oath or declaration later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).

\$0.00

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	19 - 20 =	0	x \$18.00
Independent claims	1 - 3 =	0	x \$84.00

\$0.00**\$0.00**Multiple Dependent Claims (check if applicable). ☐**\$0.00****TOTAL OF ABOVE CALCULATIONS =****\$890.00**

☐ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.

\$0.00**SUBTOTAL =****\$890.00**

Processing fee of **\$130.00** for furnishing the English translation later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).

\$0.00**TOTAL NATIONAL FEE =****\$890.00**

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). ☐

\$0.00**TOTAL FEES ENCLOSED =****\$890.00**

Amount to be: refunded	\$
charged	\$

- a. ☐ A check in the amount of _____ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. **23-3178**. A duplicate copy of this sheet is enclosed.
- d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

David O. Seeley
Registration No. 30,148

**022913**

PATENT TRADEMARK OFFICE

SIGNATURE

Dana L. Tangren

NAME

37,246

REGISTRATION NUMBER

December 27, 2001

DATE

10/019624 #3/a

531 Rec'd PCT 26 DEC 2001

Express Mail Label No. EL 813 876 844 US

PATENT APPLICATION

Docket No. 15584.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Terry Bruce

Int'l. App. No.

PCT/GB00/02576

Int'l. Filing Date:

July 6, 2000

For:

HOSE CLAMPING DEVICE

PRELIMINARY AMENDMENT

BOX: PCT

Assistant Commissioner for Patents

Washington, DC 20231

Sir:

Prior to calculating the fee for the above-identified patent application, please enter the following amendments.

IN THE SPECIFICATION

Page 1, line 2, insert the following section heading:

--BACKGROUND OF THE INVENTION

1. Field of the Invention--.

Page 1, line 5, insert the following section heading:

--2. The Relevant Technology--.

Page 1, line 12, insert the following section heading

--BRIEF SUMMARY OF THE INVENTION--.

Page 4, line 3, insert the following section heading:

--BRIEF DESCRIPTION OF THE DRAWINGS--.

Page 5, line 1, prior to the paragraph starting with, "Referring initially to," insert the following section heading:

--DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT--.

At the end of the application insert the following abstract.

--ABSTRACT OF THE DISCLOSURE

A universal hose clamp includes a universal hose locating mechanism, a hose coupling for connecting a hose to the hose clamp, and securing structure for securing the locating mechanism to a support structure. The universal hose clamp may be employed to secure a hose to an existing support structure or to a portable independent frame. The universal hose clamp is designed to be adaptable for use with a range of hose diameters and as such the universal hose clamp can be employed in a wide range of emergency situations. When deployed the universal hose clamp enables rotating the hose coupling in any direction and thereafter the hose coupling can be locked in that position. Therefore, with the aid of the universal hose clamp only one operator is required to control a hose device in an emergency situation.--

IN THE CLAIMS

Please amend claim 6 to read as follows:

6. (Amended) A universal hose clamp, as claimed in claim 4, wherein the securing means is a locking mechanism adapted to lockably engage the hose locating mechanism to the support structure, wherein the locking mechanism comprises a male and female member that are adapted to lockably engage.

Please add the following new claim 19:

19. (New) A universal hose clamp, as claimed in claim 5, wherein the securing means is a locking mechanism adapted to lockably engage the hose locating mechanism to the support structure, wherein the locking mechanism comprises a male and female member that are adapted to lockably engage.

REMARKS

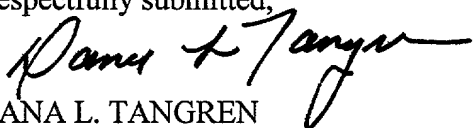
By this Preliminary Amendment, applicant has amended the specification by incorporating appropriate section titles. An Abstract of the Disclosure has also been added. The added abstract is supported by the abstract of the International Application to which the present national application claims priority. As required, a copy of the abstract is also attached hereto on a separate sheet of paper. Claim 6 has been amended to remove the multiple dependency recited therein. New claim 19 is supported by original claim 6. In view of the forgoing, applicant respectfully submits that the amendments to the specification and the claims do not introduce new matter, and entry thereof is respectfully requested.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned VERSION WITH MARKINGS TO SHOW CHANGES MADE.

In view of the forgoing, claims 1-19 are presented to the Examiner for consideration on the merits.

DATED this 27th day of December 2001.

Respectfully submitted,


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VERSION WITH MARKINGS TO SHOW CHANGES MADE

Claim 6 has been amended as follows:

6. (Amended) A universal hose clamp, as claimed in [claims 4 and 5] claim 4, wherein the securing means is a locking mechanism adapted to lockably engage the hose locating mechanism to the support structure, wherein the locking mechanism comprises a male and female member that are adapted to lockably engage.

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1 Hose Clamping Device

2

3 The present invention relates to a device for securing
4 hoses, particularly those used by fire fighters.

5

6 When fighting a fire there are a number of problems to be
7 addressed in addition to extinguishing the fire, for
8 example rescuing those who are trapped or crowd control.
9 As a result the available human resources need to be
10 carefully targeted to limit/prevent the occurrence of
11 injury.

12

13 The present invention recognises that as part of fire-
14 fighting the use and control of a hose is an onerous task
15 requiring the efforts of several people. The present
16 invention attempts to mitigate this problem and allow for
17 better targeting of available resources.

18

19 It is an object of the present invention to provide a
20 device whereby a hose can be clamped to a support thus
21 allowing fire fighters to be released from such duties
22 and available for other tasks, for example rescuing those
23 who are trapped.

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2

1 It is a further object that such a device will be simple
2 to use and readily adapted to the dimensions of different
3 hoses.

4

5 According to the present invention there is provided a
6 universal hose clamp comprising a universal hose locating
7 mechanism, a hose coupling for connecting a hose to the
8 hose clamp, and a securing means for securing said
9 locating mechanism to a support structure.

10

11 Preferably the support structure is an existing railing,
12 pole or other similar structure.

13

14 Preferably the securing means is a universal base
15 clamping mechanism adapted for clamping onto the support
16 structure.

17

18 Alternatively the support structure is a portable
19 independent frame.

20

21 More preferably the portable independent frame is a
22 tripod.

23

24 Preferably in this second embodiment the securing means
25 is a locking mechanism adapted to lockably engage the
26 hose locating mechanism to the support structure, wherein
27 the locking mechanism comprises a male and female member
28 that are adapted to lockably engage.

29

30 Preferably the hose locating mechanism comprises a
31 central mount, two Azimuth locking mechanisms and a quick
32 release hose mount.

33

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3

1 More preferably the Azimuth locking mechanism contained
2 on the locating mechanism comprises a handle assembly, a
3 connection means and a stab pin.

4

5 Preferably the Azimuth locking mechanism contained on the
6 locating mechanism moves between an unlocked position
7 when the handle assembly is in a plane parallel to the
8 stab pin, and a locked position when the handle assembly
9 is rotated through 90 degrees to lie in a plane
10 perpendicular to the stab pin.

11

12 Preferably the first Azimuth locking mechanism contained
13 on the locating mechanism provides a means for rotating
14 the hose coupling about an axis in the horizontal plane.

15

16 Preferably the second Azimuth locking mechanism contained
17 on the locating mechanism provides a means for rotating
18 the hose coupling about an axis in the vertical plane.

19

20 Preferably the hose coupling comprising a gripping aid, a
21 mounting band and a securing means.

22

23 Preferably the gripping aid is cylindrical in shape.

24

25 More preferably the gripping aid is made of a flexible
26 material, namely rubber.

27

28 Preferably the mounting band is cylindrical in shape.

29

30 Preferably the securing means is a screw thread mechanism

31

32 Preferably the attachment means for the hose coupling to
33 the universal hose clamp is easily detachable.

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4

1 More Preferably the attachment means is by way of an
2 Azimuth locking mechanism.

3

4 In order to provide a better understanding of the
5 invention embodiments will now be described by way of
6 example only with reference to the accompanying Figures
7 in which:

8

9 Figure 1 illustrates a universal hose clamp for
10 locking and securing a hose;

11

12 Figure 2 illustrates a component of the
13 universal hose clamp, namely a universal hose
14 locating mechanism, with two Azimuth locking
15 mechanisms shown in a locked position;

16

17 Figure 3 and 4 illustrate separate perspective
18 views of a further component of the universal
19 hose clamp, namely a universal base clamping
20 mechanism shown clamped to a Y-shaped handrail;

21

22 Figure 5 illustrates the universal hose clamp
23 of Figure 1 one of the universal Azimuth
24 locking mechanisms for controlling the hose
25 clamp rotation about the vertical axis in the
26 unlocked position; and

27

28 Figure 6 illustrates a tripod on which the
29 universal hose clamp of Figure 1 can be
30 mounted;

31

32

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5

1 Referring initially to Figure 1, a universal hose clamp
2 is generally depicted at 1 comprising a universal hose
3 locating mechanism 2, a universal base clamping mechanism
4 3 and a hose coupling 4.

5

6 The hose coupling 4 comprises a cylindrical gripping aid
7 5, a cylindrical mounting band 6 and a screw thread
8 mechanism 7.

9

10 Figure 2 illustrates further detail of the universal hose
11 locating mechanism 2 in the absence of the base clamping
12 mechanism 3 and the hose coupling 4. The hose locating
13 mechanism 2 comprises a central mount 8, two Azimuth
14 locking mechanisms 9 and 10 and a quick release hose
15 mount 11.

16

17 The two Azimuth locking mechanisms 9 and 10 further
18 comprise a handle assembly 12, a connection means 13 and
19 a stab pin 14 or 15. The connection means 13 provides
20 the activation mechanism for moving the Azimuth locking
21 mechanisms 9 and 10 between their unlocked and locked
22 positions. In Figure 2 both locking mechanisms 9 and 10
23 are in their locked positions. When unlocked the first
24 Azimuth locking mechanism 9 allows rotation of the hose
25 mount 11, and hence the hose coupling 4, about a
26 horizontal axis while the second Azimuth locking
27 mechanism 10, when unlocked, allows rotation about a
28 vertical axis. It should be noted at this point that
29 these two mechanisms lock independently of each other
30 such that one may be in the locked position while the
31 other is in the unlocked position. The stab pins 14 and
32 15 provide male members for the Azimuth locking
33 mechanisms 9 and 10, respectively.

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6

1
2 Figures 3 and 4 present further detail of the universal
3 base clamping mechanism 3 in the absence of the hose
4 locating mechanism 2. The base clamping mechanism 3
5 comprises a central frame 16, a rail clamp 17 and a
6 female 18 for the Azimuth locking mechanism 10. The rail
7 clamp 17 further comprises a swing over lock 19, a rail
8 clamp tightening assembly 20, and two threaded locating
9 rails 21.

10
11 The combination of the hose locating mechanism 2 and the
12 base clamping mechanism 3 is achieved by inserting the
13 stab pin 15 in the female locking component 18 with the
14 handle assembly 12 in the unlocked position, as in Figure
15 5. This unlocked position corresponds to the case when
16 the handle assembly 12 is in a plane parallel to the stab
17 pin 15. The locked position is achieved by rotating the
18 handle assembly 12 through 90 degrees such that the
19 handle assembly 12 now lies in the plane perpendicular to
20 the stab pin 15, as in Figure 1.

21
22 To employ the universal hose clamp 1, the base clamping
23 mechanism 3 is attached to a railing, pole or other
24 similarly reinforced structure. As shown in Figure 1,
25 the desired structure to which the hose clamp 1 can be
26 attached may take the form of a Y-shaped rail 22.
27 Initially the swing over lock 19 is opened by unscrewing
28 one of the threaded locating rails 21. This allows the
29 rail clamp 17 to be placed in situ around the hand rail
30 22. With the hand rail 22 in place above the threaded
31 locating rails 21, the swing over lock 19 is then closed
32 and fastened. The base clamping mechanism 3 is then

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7

1 secured in place by tightening of the rail clamp 17 by
2 use of the rail clamp tightening assembly 20.

3

4 The second stage is to attach the hose locating mechanism
5 2 to the base clamping mechanism 3 via the vertical
6 Azimuth locking mechanism 10 as described above.
7 Thereafter the hose (not shown) is inserted within the
8 cylindrical hose gripping aid 5 which is then tightened
9 in the cylindrical mounting band 6 that is attached to
10 the quick release hose mount 11. The tightening of the
11 cylindrical hose gripping aid 5 in the cylindrical
12 mounting band 6 is achieved via the screw thread
13 mechanism 7. With the horizontal Azimuth locking
14 mechanism 9 in the unlocked position the hose coupling 4
15 is mounted on the horizontal stab pin 14.

16

17 At this stage the hose is secured within the hose clamp 1
18 and can be deployed at full pressure by just one person.
19 This has the obvious advantage of releasing manpower to
20 carry out other important duties. By simply unlocking
21 either of Azimuth locking mechanisms, 9 and 10, the hose
22 can be rotated to provide universal cover over 4π
23 steradians.

24

25 Mobility for the hose coupling 4 may be enhanced by its
26 incorporation with a tripod system 23, as illustrated in
27 Figure 6. This tripod 23 comprises a female member 24
28 for use in an Azimuth locking mechanism 10, adjustable
29 legs 25 and a cross brace 26 to provide additional
30 strength. It should be noted that the aforementioned
31 female 24 is of a similar design to the female member 18
32 used in the previously described embodiment. Therefore,
33 there is no requirement for the modification of the hose

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8

1 locating mechanism 2. With this embodiment the tripod is
2 assembled at the required location. The hose (not shown)
3 is then mounted in the hose locating mechanism 2 as
4 previously described. The vertical stab pin 15 is then
5 inserted in the female of the tripod 18 and locked as
6 required by the vertical Azimuth locking mechanism 10.

7

8 The use of alternative hose diameters is determined by
9 the nature of the emergency. Thus the hose coupling 4 is
10 not limited to use with one particular hose size.
11 Selection of a hose can be accommodated within a
12 particular cylindrical gripping aid 5 by the adjustment
13 of the screw thread mechanism 7. If the hose diameter is
14 significantly different then the quick release hose mount
15 11 allows a second hose clamp 4 of the desired dimensions
16 to be quickly mounted on the hose locating mechanism 2.

17

18 An advantage of the present invention is that there is
19 provided a universal hose clamp which can be used with
20 known types of hose and whose parts are readily
21 interchanged to meet the requirements of different
22 emergency situations.

23

24 A further advantage of the present invention is that
25 there is provided means which will reduce the manpower
26 required to control a hose, and increase the numbers
27 available to help those who are part of the emergency
28 situation.

29

30 A further advantage of the invention is that the
31 individual securing means are able to rotate such that
32 the hose can be used in any direction thus allowing the
33 changing needs of an emergency situation to be met.

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9

1

2 In an alternative embodiment the clamp may be provided
3 with means to enable control from a remote source. For
4 example an electronic receiver and control electronics
5 could be mounted within the central mount 8 of the
6 universal hose locating mechanism 2. This would allow
7 the direction of the hose coupling 4 to be altered
8 without the requirement for direct human contact.

9

10 Further modifications and improvements may be added
11 without departing from the scope of the invention herein
12 intended.

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10

1 Claims:

2

3 1. A universal hose clamp comprising a universal hose
4 locating mechanism, a hose coupling for connecting a
5 hose to the hose clamp, and a securing means for
6 securing said locating mechanism to a support
7 structure.

8

9 2. A universal hose clamp as claimed in Claim 1,
10 wherein the support structure is an existing
11 railing, pole or other similar structure.

12

13 3. A universal hose clamp as claimed in Claim 2,
14 wherein the securing means is a universal base
15 clamping mechanism adapted for clamping onto the
16 support structure.

17

18 4. A universal hose clamp as claimed in Claim 1,
19 wherein the support structure is a portable
20 independent frame.

21

22 5. A universal hose clamp, as claimed in Claim 4,
23 wherein the portable independent frame is a tripod.

24

25 6. A universal hose clamp, as claimed in Claims 4 and
26 5, wherein the securing means is a locking mechanism
27 adapted to lockably engage the hose locating
28 mechanism to the support structure, wherein the
29 locking mechanism comprises a male and female member
30 that are adapted to lockably engage.

31

32 7. A universal hose clamp as claimed in Claim 1,
33 wherein the hose locating mechanism comprises a

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11

1 central mount, two Azimuth locking mechanisms and a
2 quick release hose mount.

3

4 8. A universal hose clamp as claimed in Claim 7,
5 wherein the Azimuth locking mechanism contained on
6 the locating mechanism comprises a handle assembly,
7 a connection means and a stab pin.

8

9 9. A universal hose clamp as claimed in Claim 7,
10 wherein the Azimuth locking mechanism contained on
11 the locating mechanism moves between a locked
12 position when the handle assembly is in a plane
13 parallel to the stab pin, and a locked position when
14 the handle assembly is rotated through 90 degrees to
15 lie in a plane perpendicular to the stab pin.

16

17 10. A universal hose clamp as claimed in Claim 7,
18 wherein the first Azimuth locking mechanism
19 contained on the locating mechanism provides a means
20 for rotating the hose coupling about an axis in the
21 horizontal plane.

22

23 11. A universal hose clamp as claimed in Claim 7,
24 wherein the second Azimuth locking mechanism
25 contained on the locating mechanism provides a means
26 for rotating the hose coupling about an axis in the
27 vertical plane.

28

29 12. A universal hose clamp as claimed in Claim 1,
30 wherein the hose coupling comprising a gripping aid,
31 a mounting band and a securing means.

32

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12

1 13. A universal hose clamp as claimed in Claim 12,
2 wherein the gripping aid is cylindrical in shape.

3

4 14. A universal hose clamp as claimed in Claim 12,
5 wherein the gripping aid is made of a flexible
6 material, namely rubber.

7

8 15. A universal hose clamp as claimed in Claim 12,
9 wherein the mounting band is cylindrical in shape.

10

11 16. A universal hose clamp as claimed in Claim 12,
12 wherein the securing means is a screw thread
13 mechanism.

14

15 17. A universal hose clamp as claimed in Claim 1,
16 wherein the attachment means for the hose coupling
17 to the universal hose clamp is easily detachable.

18

19 18. A universal hose clamp as claimed in Claim 17,
20 wherein the attachment means an Azimuth locking
21 mechanism.

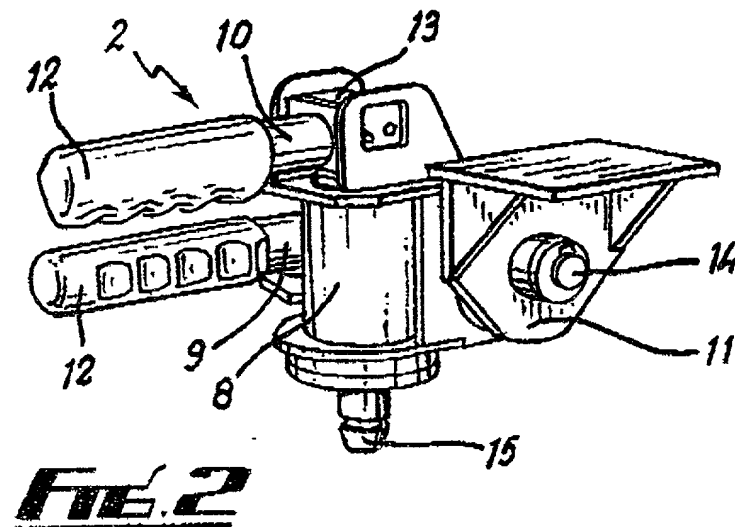
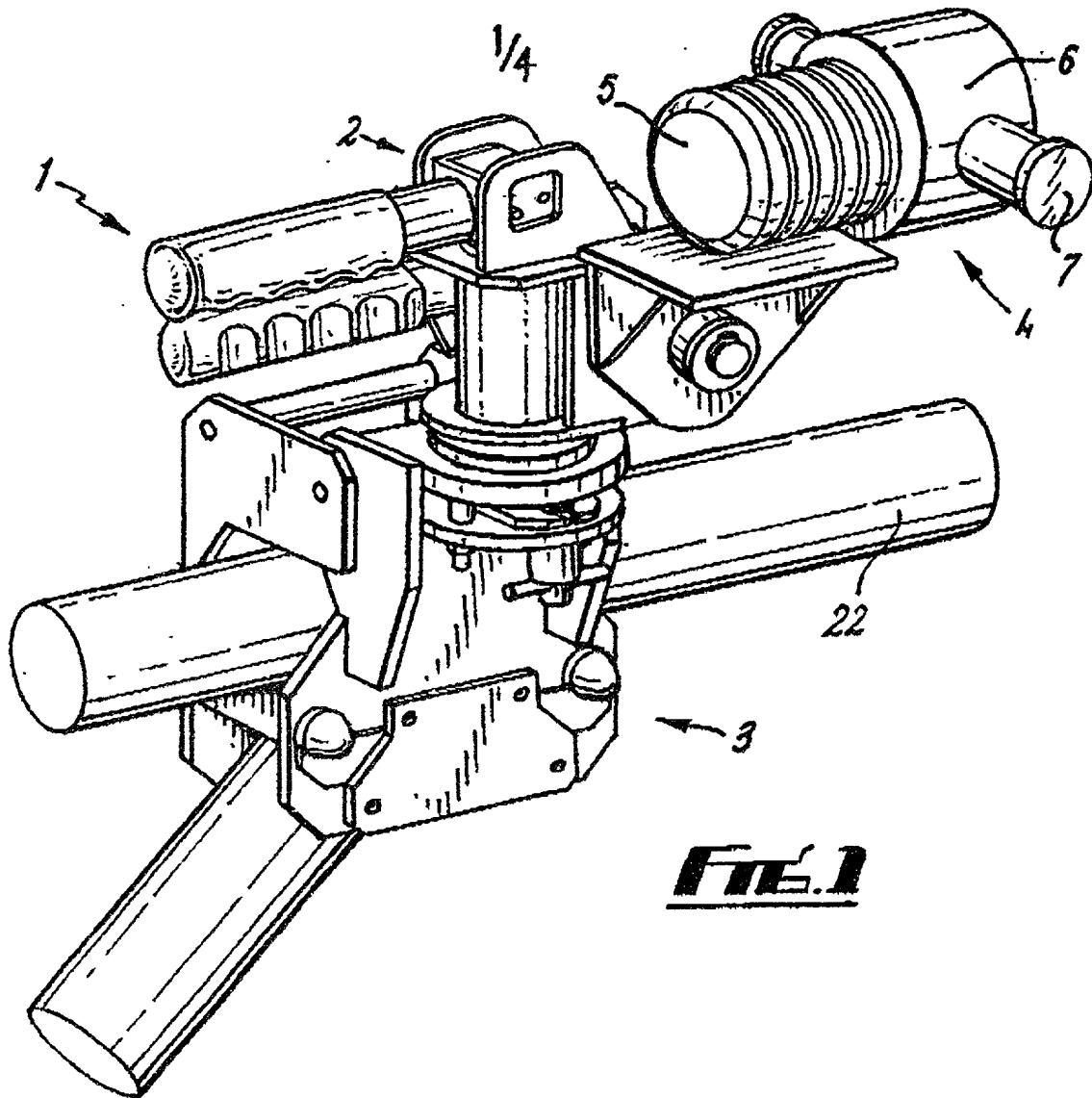
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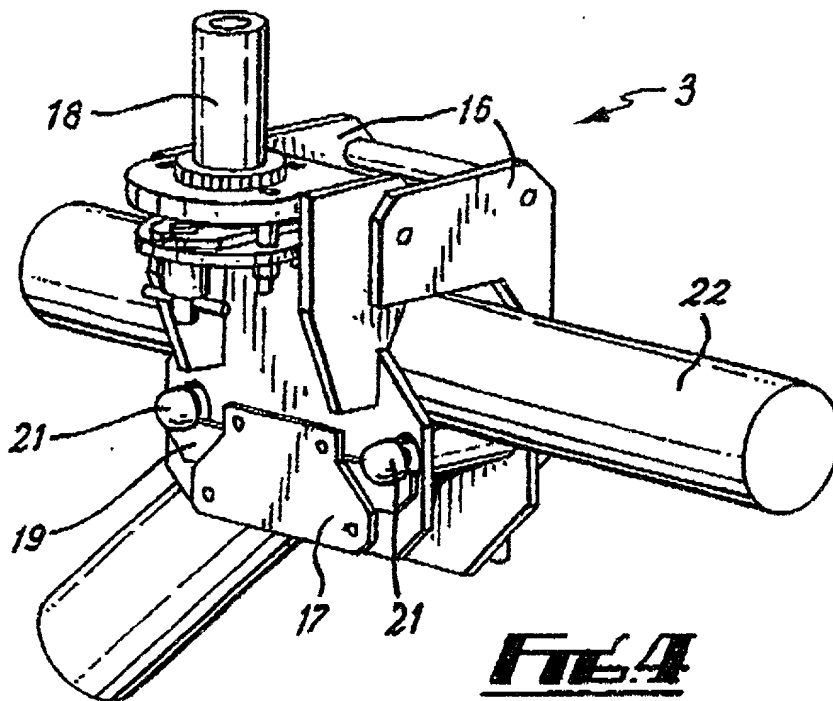
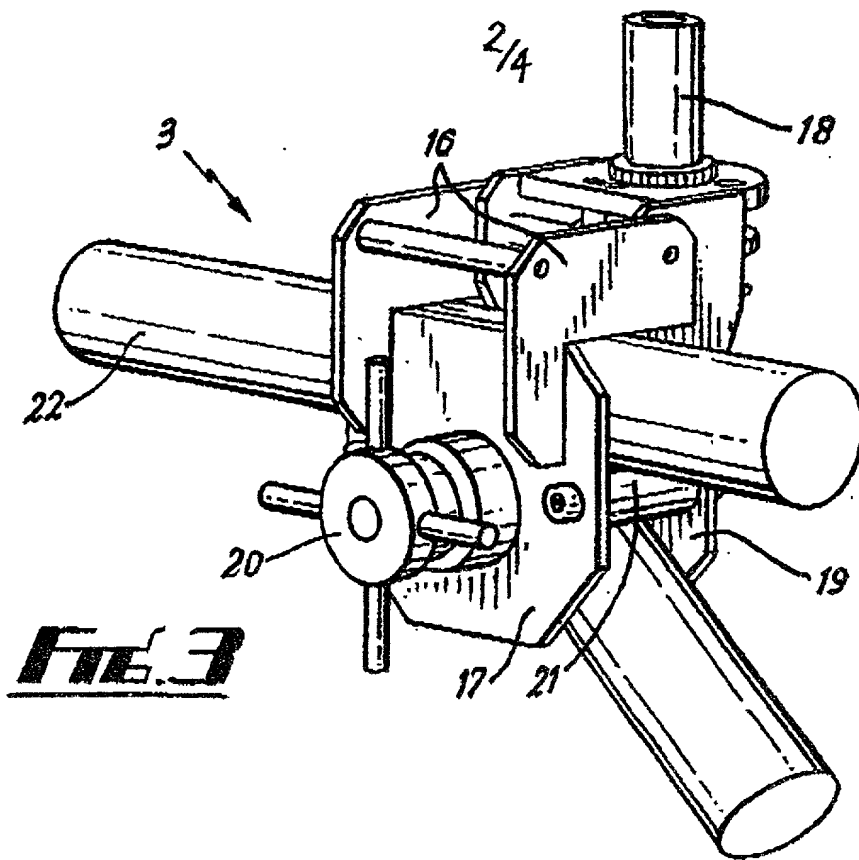


SUBSTITUTE SHEET (RULE 26)

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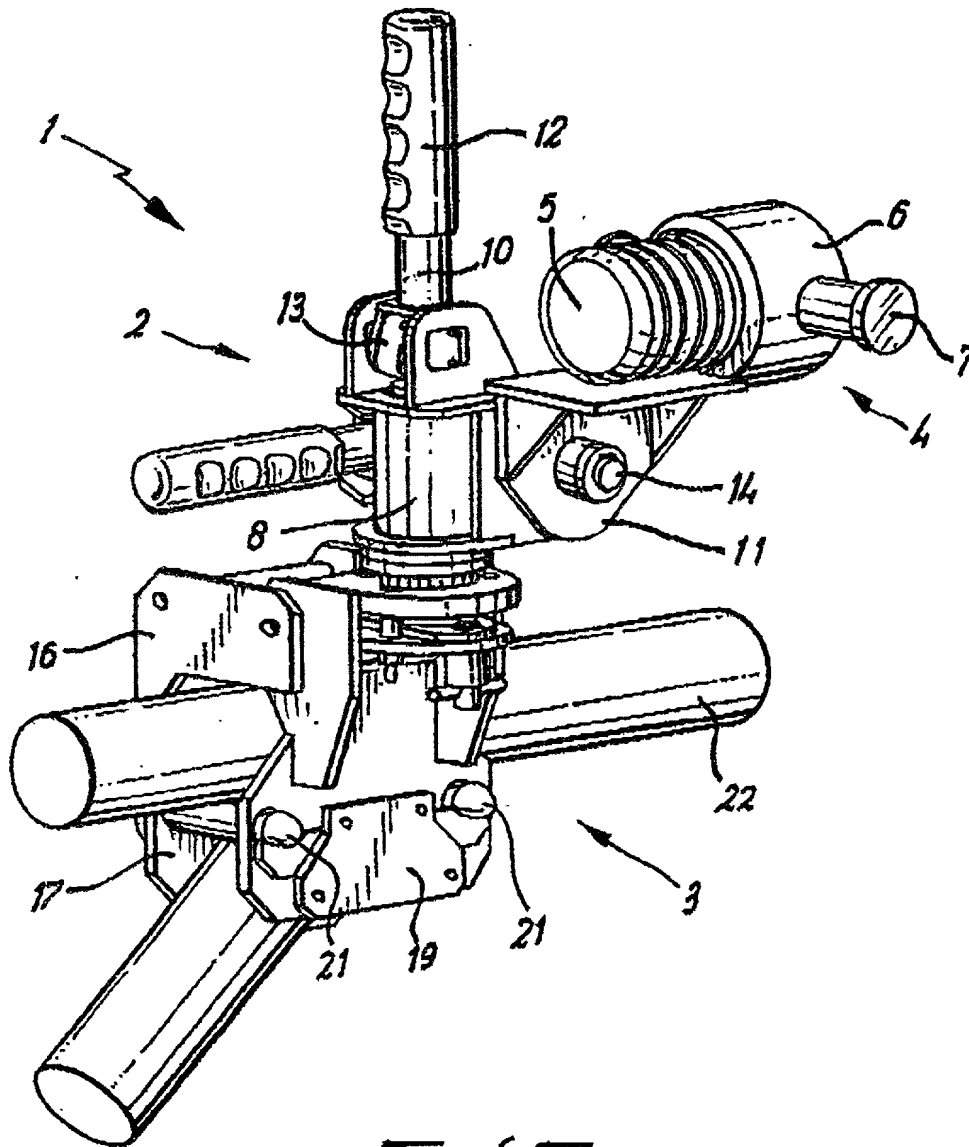
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SUBSTITUTE SHEET (RULE 26)

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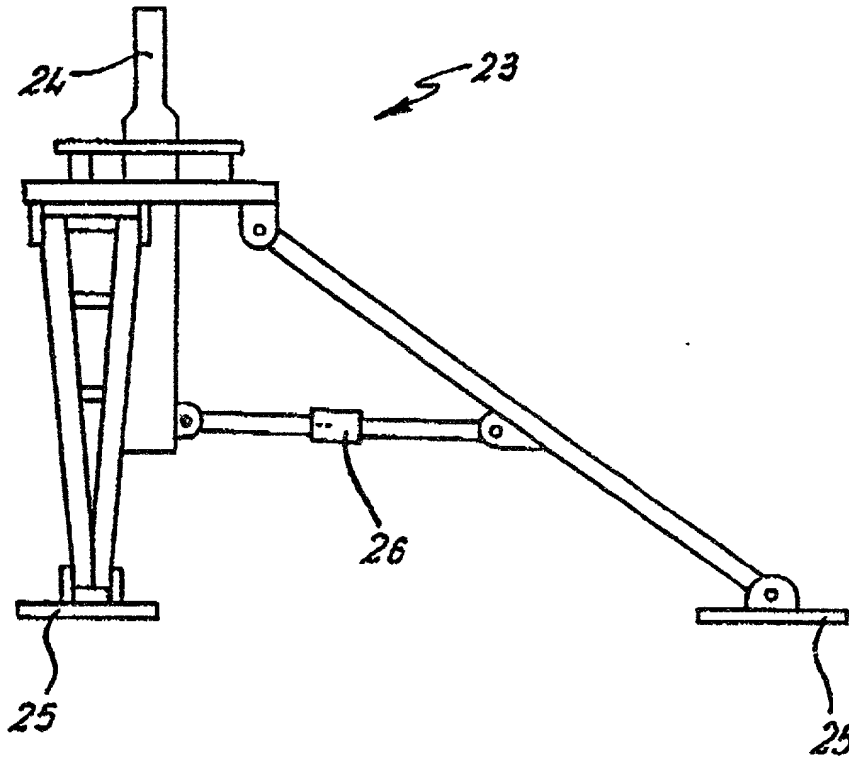


FIG. 6

SUBSTITUTE SHEET (RULE 26)

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
11 January 2001 (11.01.2001)

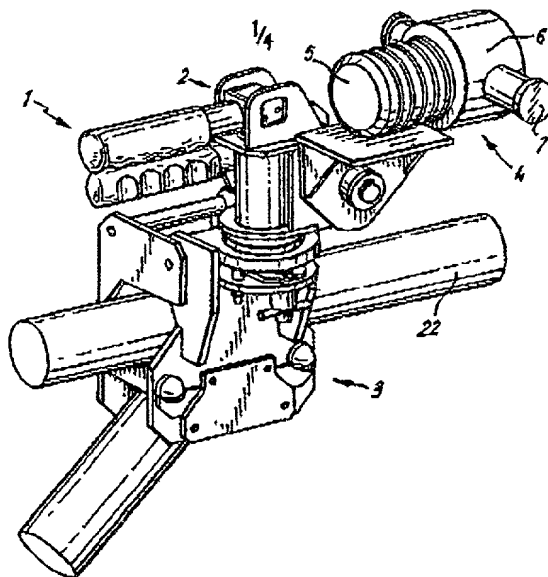
PCT

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[Continued on next page]

(54) Title: HOSE CLAMPING DEVICE



(57) Abstract: A universal hose clamp (1) is described, which comprises a universal hose locating mechanism (2), a hose coupling (4) for connecting a hose to the hose clamp (1), and a securing means for securing said locating mechanism to a support structure. The universal hose clamp (1) may be employed to secure a hose to an existing support structure (22) or to a portable independent frame (23). It is designed to be adaptable for use with a range of hose diameters and as such the universal hose clamp (1) can be employed in a wide range of emergency situations. When deployed the universal hose clamp (1) provides a means for rotating the hose coupling (4) in any direction and thereafter the hose coupling (4) can be locked in that position. Therefore, with the aid of the universal hose clamp (1) only one operator is required to control a hose device in an emergency situation.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

FOOTNOTES

COMBINED DECLARATION and POWER OF ATTORNEY
(Utility, Design, National Stage of PCT)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

(Check one applicable item below)

- ☐ utility patent application
☐ design patent application
☒ national stage of PCT patent application

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (*if only one name is listed below*) or an original, first and joint inventor (*if plural names are listed below*) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION²

HOSE CLAMPING DEVICE

SPECIFICATION IDENTIFICATION

the specification of which:

(complete (a), (b), or (c))

- (a) ☒ is attached hereto.
- (b) ☐ was previously filed _____, as United States Patent Application Serial No. _____.
- (c) ☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article § 19 on _____ (*if any*).

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claim(s), as amended by any amendment specifically referred to in the declaration, referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56.

FOREIGN PRIORITY CLAIM

(35 USC § 119(a)-(d))

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))³

(d) ☐ no such applications have been filed.

(e) ☒ such applications have been filed as follows.

Note: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below, and make the priority claim.

PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS⁴ (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER § 119 or § 365	
PCT	PCT/GB00/02576	6 July 2000	<input checked="" type="checkbox"/> YES	NO <input type="checkbox"/>
GB	9915653.1	6 July 1999	<input checked="" type="checkbox"/> YES	NO <input type="checkbox"/>
			<input type="checkbox"/> YES	NO <input type="checkbox"/>
			<input type="checkbox"/> YES	NO <input type="checkbox"/>


U.S. PRIORITY CLAIM
(35 USC § 120)

I hereby claim the benefit under 35 USC § 120 of any United States application(s) or § 365(c) of any PCT international application designating the United States of America listed below, if any, and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of title 35 USC § 112, I acknowledge duty to disclose information which is material to patentability as defined in title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international application filing date of this application.

UNITED STATES or PCT PARENT APPLICATION NO.	PARENT FILING DATE (month, day , year)	PARENT PATENT NO. (if applicable)

POWER OF ATTORNEY

I hereby appoint as my attorneys and/or patent agents all attorneys and/or patent agents listed under the following Customer Number, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

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DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)⁵

NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.

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Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____